HITACHI
Inspire the Next

Hitachi Unified Compute Platform HC hybrid and all-flash solutions deliver compute, storage, virtualization and data protection in an agile, scalable and resilient hyperconverged infrastructure.

DATASHEET

Hitachi Unified Compute Platform HC

As IT managers are challenged with growing demands for faster delivery of business services, they face mounting complications and rising costs as they struggle to manage disparate technology resources. Hitachi Unified Compute Platform HC (UCP HC) hybrid and all-flash appliances combine compute, storage and virtualization into a hyperconverged infrastructure appliance to answer these challenges. UCP HC creates a simple, easy-to-deploy, all-in-one solution, powered by software-defined storage VMware Virtual SAN and HDS software to extend the agility, and simplicity of the UCP family.

UCP HC provides a comprehensive dashboard to view virtual machines (VMs). Compute and storage are viewable, with health monitors for CPU, memory, storage and VM usage for the entire clusters, individual appliances and individual nodes. Minimal IT experience is required to deploy, configure and manage the UCP HC appliance. As it leverages VMware's core products, administrators can apply existing VMware knowledge, best practices and processes.

Pay as You Grow

UCP HC family of hybrid and all-flash solutions simplifies the scale-out process and provides elasticity to closely align the IT infrastructure with dynamic business demands (see Table 1). Start with exactly what you need and scale to keep pace with business growth, without the need for committing massive capital upfront.

Digital Transformation With UCP HC Solutions
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Simplicity Redefined

Deploying and managing UCP HC appliances requires minimal skills and effort, freeing resources for higher business value activities. Single-pane-of-glass management for entire physical and virtual infrastructure enables VM administrators to meet business requirements without requiring specialized manpower. The management software, vCenter, easily discovers new UCP HC appliances and then distributes the configuration to add new appliances with a few mouse clicks. UCP HC rebalances resources and workloads across the cluster, creating a single resource pool. Advanced policy-based management, introduced with Virtual SAN, automates and simplifies storage consumption and management.

Hitachi Compute Advisor provides a smart life-cycle management for your compute infrastructure, enabling firmware upgrades, centralized remote hardware monitoring, and power management. Use its flexible graphical user interface (GUI) to manage, scale and monitor compute resources. Plus, centralize management of power, firmware, processors, chassis status, bios settings, Ethernet ports and more.

Reduce IT Costs

Hitachi Unified Compute Platform HC delivers high VM density to support a mix of applications, eliminating the need for storage sprawl. Next-generation data reduction technologies (deduplication, compression, erasure coding) reduce storage need by up to seven times to boost return on investment (ROI) by leveraging all-flash hyperconverged infrastructure. An advanced policy-based management engine ensures provisioning of the right storage services on the fly with accurate quality of service (QoS) per VM. UCP HC saves operational overhead with its smaller data center footprint, resulting in lower power and cooling expenses. Hitachi WAN optimizer accelerates long-distance data transmissions to send data between sites faster, reducing bandwidth requirements and operational expenses.

Eliminate Risk

Building on the Hitachi legacy, UCP HC delivers a reliable foundation to run your important applications with aggressive recovery point and time objective (RPO and RTO) requirements. UCP HC scale-out cluster is designed to tolerate failure, without impacting performance or data accessibility. It provides native and optimized data protection and disaster recovery solutions to deliver resilient infrastructure for applications

NEXT-GENERATION HYPERCONVERGED SOLUTIONS

Ensure powerful performance and availability for traditional and cloud-native application deployment. UCP HC solutions deliver a reliable platform for business applications, databases, analytics, virtual desktop infrastructure (VDI), DevOps and remote and branch office (ROBO) deployments, among other use cases.

TABLE 1. HITACHI UNIFIED COMPUTE PLATFORM HC MODELS AND SPECIFICATIONS

Product	UCP HC V240	UCP HC V240F	UCP HC V210	UCP HC V210F
Configuration	Hybrid	All-flash	Hybrid	All-flash
Form Factor	Rack optimized server for solutions, 2U 4 node	Rack optimized server for solutions, 2U 4 node	Rack optimized server for solutions, 2U 1 node	Rack optimized server for solutions, 2U 1 node
Processor	2 x Intel Xeon processor E5-2680 v4 (14 core; 3.3GHz; 120W) or 2 x Intel Xeon processor E5-2650 v4 (12 core; 2.9GHz; 30W) or 2 x Intel Xeon processor E5-2620 v4 (8 core; 3GHz; 85W)	2 x Intel Xeon processor E5-2680 v4 (14 core; 3.3GHz; 120W) or 2 x Intel Xeon processor E5-2650 v4 (12 core; 2.9GHz; 30W) or 2 x Intel Xeon processor E5-2620 v4 (8 core; 3GHz; 85W)	2 x Intel Xeon processor E5-2680 v4 (14 core; 3.3GHz; 120W) or 2 x Intel Xeon processor E5-2650 v4 (12 core; 2.9GHz; 30W) or 2 x Intel Xeon processor E5-2620 v4 (8 core; 3GHz; 85W)	2 x Intel Xeon processor E5-2680 v4 (14 core; 3.3GHz; 120W) or 2 x Intel Xeon processor E5-2650 v4 (12 core; 2.9GHz; 30W) or 2 x Intel Xeon processor E5-2620 v4 (8 core; 3GHz; 85W)
Raw Storage (Per node)	3.6 - 6.0TB	4TB (800GB x 5)	14.4TB	9.6TB
Estimated Usable Capacity	Up to 3TB	10-12TB (RAID-6 with dedupe and compression)	Up to 7.2TB	18-26TB (RAID-6 with dedupe and compression)
Memory	32 - 512GB (32-256GB per processor)	128 - 512GB	32-384GB per processor, or up to 768GB per node	32-384GB per processor, or up to 768GB per node
Cache	400 - 800GB solid state disk (SSD)	400 - 800GB SSD	2 x 800GB or 3 x 400GB SSD	2 x 400GB or 2 x 800GB SSD
Network	2 x 10 gigabit Ethernet (GigE) SFP+ or RJ45	2 x 10 GigE SFP+ or RJ45	2 x 10 GigE SFP+ or RJ45	2 x 10 GigE SFP+ or RJ45
Management Network	One 10/100Mb/sec BMC port for remote (out-of-band) management per node	One 10/100Mb/sec BMC port for remote (out-of-band) management per node	One 10/100Mb/sec BMC port for remote (out-of-band) management per node	One 10/100Mb/sec BMC port for remote (out-of-band) management per node
Network Switch Support	Customer-supplied switch, such as Brocade VDX 6740, or any other switch that meets VSAN requirements	Customer-supplied switch, such as Brocade VDX 6740, or any other switch that meets VSAN requirements	Customer-supplied switch, such as Brocade VDX 6740, or any other switch that meets VSAN requirements	Customer-supplied switch, such as Brocade VDX 6740, or any other switch that meets VSAN requirements
Maximum Node per Cluster	64	64	64	64
Minimum Initial Order	3 node	3 node	1 node. 2 nodes are needed to form a cluster.	1 node. 2 nodes are needed to form a cluster.
Node Increment	1 node	1 node	1 node	1 node
Software	VMware vSphere 6.0 U2 +, Virtual SAN 6.2+			
	▪ Included: Hitachi Compute Advisor (HCA), Hitachi Data Ingestor VM (Trial) ▪ Optional: Hitachi Data Ingestor (HDI), Hitachi Content Platform (HCP), Hitachi WAN Optimizer, Hitachi Data Instance Director, VMware Management Packs (Separately available)			

with near-zero downtime tolerance. Business applications can be protected in remote data centers with rapid recoverability to minimize the impact of site failure with five-minute RPO with vSphere host-based replication. Hitachi's reliable one-stop support for the entire appliance provides a zero worry experience for customers.

The UCP HC appliance is sized to run approximately 120 average-sized, general-purpose, data center VMs or 250 virtual desktops with no restrictions on application type. It can be purchased with the following options:

- **Hitachi Data Ingestor (HDI) and Hitachi Content Platform (HCP)** create an integrated offering that provides distributed consumers of IT, such as remote offices and branch offices (ROBO) or cloud storage users, with a seamlessly scalable, backup-free storage solution. Deployed as a minimal-footprint or virtual appliance, HDI sends data from the UCP HC appliances at the edge to HCP solution at core infrastructure, employing advanced storage and data management capabilities.
- **Hitachi WAN Optimizer** accelerates data transfer between sites to improve application performance and reduce bandwidth requirement by up to 17 times. It reduces the recovery window during failback scenarios, thus minimizing the data loss.

Summary

Hitachi Unified Compute Platform HC expands the UCP family of converged solutions with a hyperconverged appliance, designed for rapid deployment and easy scalability, while lowering capital and operational expenses. Hitachi hyperconverged solutions deliver a reliable platform for enterprise and midmarket environments.

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